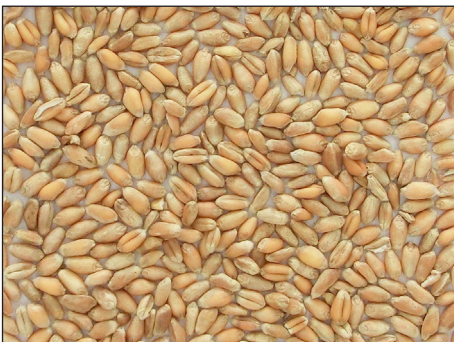# ASM QUASAR
Intelligent optical sorter

- Complete system with integral vibratory feeder and separation unit

- Low material losses using segmented separation system

- High throughput rate

- IFS and HACCP conformity

- State of the art solution to remove dense foreign bodies from bulk material

- Total system solution ready to connect

ASM QUASAR
The Intelligent optical sorter

The ever stringent quality standards are creating new technical challenges for big and small businesses alike.

Helping our customers to increase final quality has been the main drive behind the development of ASM's sorting technology and lead to the creation of an entirely new optical sorting machine, designed specifically to meet the new challenges in quality control: the ASM QUASAR.

Logic

We developed a completely new "Optical Processor" called Logic, which is the heart of the machine.

This is a combination of very powerful hardware and software algorithms, that closely mimic how humans understand visual information.

In order to determine what something looks like and what are the differences between two objects, the human brain combines colours, shapes, and textures. Optical sorters could only analyse this information separately, until now.
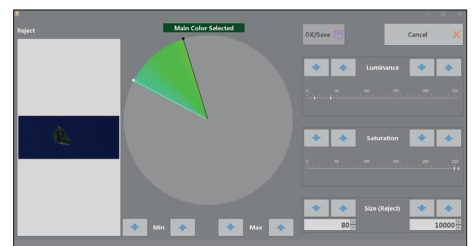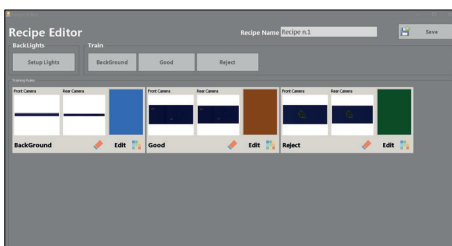
Performance features

- **4k High-Resolution** cameras with **True-Color** image processing technology.

- **True-Shape** technology to **see and differentiate the exact shape** of every single kernel, at high speed.

- **Higher capacity, dedicated optical processor** and analysis speed up to **40 kHz**.

- **Sniper ejector logic reduces product loss** to a bare minimum.

- **Even easier to use,** with a new HD interface, industrial-grade tablet and auto-calibration.

Just like our brain

The ASM QUASAR judges many different parameters at the same time, and can "understand" what its cameras are seeing. It automatically knows what is the real colour of an object, independently of lights and shadows, and the exact shape and texture of every single kernel, contaminant or particle. This makes it very accurate in deciding what to keep or reject, and incredibly easy to use.

Model	Width	Height	Depth
QUASAR 1000	905 mm	1910 mm	1800 mm
QUASAR 2000	1370 mm	1910 mm	1800 mm
QUASAR 3000	1670 mm	1910 mm	1800 mm
QUASAR 4000	2070 mm	1910 mm	1800 mm
QUASAR 5000	2415 mm	1910 mm	1800 mm
QUASAR 6000	2820 mm	1910 mm	1800 mm

Simplified user interface

Examples

Portable HD Tablet

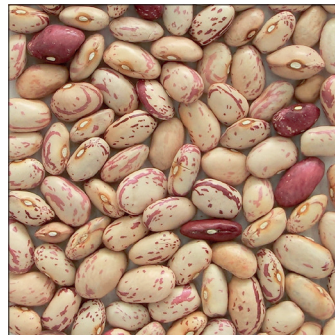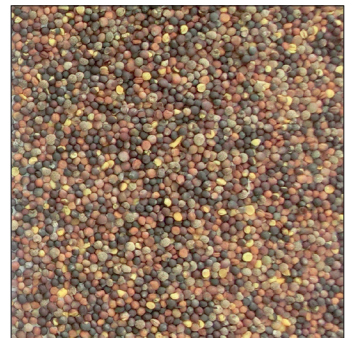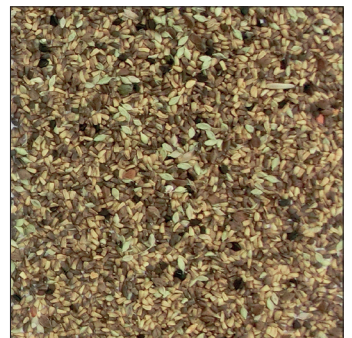## The optical processor changes how the user interacts with the sorter

Thanks to the Intelligent Learning system, creating a program is as simple as taking a snapshot of a contaminated product sample.

The ASM QUASAR automatically understands what is the good product and suggests what should be rejected. A simple confirmation on the screen and the program is created. Trial-and-error is a thing of the past.

Powerful, in every way

The ASM QUASAR has a 360 mm chute (the widest on the market) and features the next generation of 4k full-colour cameras, with the highest optical resolution and the innovative "True-Color" technology to maintain perfect colour and optical definition even on the smallest products.
The processing speed is lightning fast, with a scan rate of up to 40 kHz and the new Sniper ejector algorithm, which drastically reduces product losses.

With its next generation technology, the ASM QUASAR offers many new possibilities for reaching the highest levels of purity and yield.

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quasar-pr-en-0318-v1.0

Sesotec system world

Detecting and separating contaminants:

Removing contaminants:
- metals
- plastics
- glass
- ceramics, porcelain, stones
- and many others

Removing from (good material):
- bulk materials
- liquids and pastes
- individually packaged product
- packed and loose items

Product types:
- end-products (food, textiles, plastics etc)
- industrial raw materials
- recycled materials

can be integrated into
all types of conveyor systems

Detecting and separating sub-standard products:

Qualitative defects:
- incorrect colour
- agglomerations
- breakages
- air inclusions in packs
- incorrect positioning / distribution

Quantitative defects:
- incorrect weight
- count errors (incorrect number of items in package)

Product types:
- end-products (food, textiles, plastics etc)
- industrial raw materials
- recycling materials

can be integrated into
all types of conveyor systems

Sorting mixed materials into single fractions:

Types of material:
- glass
- plastics
- metals
- and many others

Delivery flows:
- bulk materials
- individually packaged product

can be integrated into:
- conveying systems
- bulk material flows

For further information or to discuss your particular application
contact one of our specialists.

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Choose Success!**